

TABLE 58. Statistical profile of doctorate recipients in engineering fields, by sex and field of study: 2009

Characteristic	All engineering fields	Aerospace/aeronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Industrial engineering	Materials science engineering	Mechanical engineering	Other engineering
All doctorate recipients (number)	7,634	296	808	708	1,694	252	622	1,095	2,159
	Percent								
Sex									
Male	78.7	85.8	73.3	79.1	84.7	73.8	74.9	86.0	72.8
Female	21.3	13.9	26.7	20.9	15.3	26.2	25.1	13.9	27.1
Unknown	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Citizenship									
U.S. citizen or permanent resident	41.2	53.7	50.9	36.9	34.1	27.8	40.4	38.4	46.2
Temporary visa holder	55.2	42.2	47.3	59.0	61.9	69.0	56.3	58.8	49.6
Unknown	3.6	4.1	1.9	4.1	4.1	3.2	3.4	2.7	4.2
Marital status									
Never married	35.4	32.8	42.2	29.5	38.4	32.9	35.0	35.3	33.1
Married	49.7	48.3	46.7	56.6	47.9	46.8	49.4	50.3	50.3
Marriage-like relationship	3.8	D	4.5	2.7	3.3	D	4.3	3.0	4.1
Separated, divorced, widowed	1.8	D	0.9	2.3	1.9	D	1.1	1.7	2.3
Unknown	9.4	11.8	5.8	8.9	8.5	15.9	10.1	9.6	10.2
Bachelor's in same field as doctorate ^a	77.1	78.4	85.5	81.9	80.2	69.0	70.6	84.1	68.9
Master's earned	78.4	88.2	52.7	89.4	86.8	82.5	67.5	85.8	75.5
	Median years								
Age at doctorate	30.5	29.9	29.0	32.2	30.6	31.7	30.3	30.6	30.6
Time to doctorate									
From bachelor's	7.9	7.3	6.5	9.1	7.9	9.3	7.5	7.8	8.0
From graduate school start	6.9	6.7	5.7	7.8	7.1	7.9	6.7	6.9	6.9
Male doctorate recipients (number)	6,006	254	592	560	1,435	186	466	942	1,571
	Percent								
Citizenship									
U.S. citizen or permanent resident	38.9	53.9	49.8	34.5	33.7	23.7	36.5	36.8	42.6
Temporary visa holder	57.5	43.3	48.0	61.3	62.5	73.7	59.9	60.4	53.2
Unknown	3.5	2.8	2.2	4.3	3.8	2.7	3.6	2.8	4.2
Marital status									
Never married	35.9	33.9	44.1	29.5	38.9	35.5	34.1	36.0	33.4
Married	49.5	50.4	45.3	56.8	48.2	46.8	50.2	50.4	49.1
Marriage-like relationship	3.5	D	D	D	3.0	3.2	D	D	4.4
Separated, divorced, widowed	1.6	D	D	D	1.8	0.0	D	D	2.2
Unknown	9.4	9.8	5.9	9.1	8.2	14.5	10.7	9.6	10.9

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Characteristic	All engineering fields	Aerospace/aeronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Industrial engineering	Materials science engineering	Mechanical engineering	Other engineering
Bachelor's in same field as doctorate ^a	78.0	81.1	85.6	83.0	80.3	74.2	71.0	84.2	69.5
Master's earned	79.6	89.4	52.7	89.1	87.3	82.8	68.2	85.8	76.9
Median years									
Age at doctorate	30.7	30.0	29.2	32.4	30.7	31.5	30.6	30.6	30.7
Time to doctorate									
From bachelor's	7.9	7.3	6.6	9.3	8.0	9.1	7.6	7.7	8.0
From graduate school start	6.9	6.7	5.7	7.9	7.1	7.7	6.8	6.9	7.0
Female doctorate recipients (number)	1,623	41	216	148	259	66	156	152	585
Percent									
Citizenship									
U.S. citizen or permanent resident	49.8	53.7	53.7	45.9	36.3	39.4	51.9	48.7	56.1
Temporary visa holder	46.6	36.6	45.4	50.7	58.3	56.1	45.5	49.3	40.0
Unknown	3.6	9.8	0.9	3.4	5.4	4.5	2.6	2.0	3.9
Marital status									
Never married	33.3	26.8	37.0	29.7	35.5	25.8	37.8	31.6	32.3
Married	50.6	36.6	50.5	56.1	46.3	47.0	46.8	50.0	53.7
Marriage-like relationship	4.7	14.6	D	D	5.0	D	D	D	3.4
Separated, divorced, widowed	2.4	D	D	D	2.7	D	D	D	2.7
Unknown	9.0	22.0	5.6	8.1	10.4	19.7	8.3	9.2	7.9
Bachelor's in same field as doctorate ^a	73.7	63.4	85.2	77.7	79.2	54.5	69.2	84.2	67.4
Master's earned	74.2	82.9	52.8	90.5	83.8	81.8	65.4	86.2	71.6
Median years									
Age at doctorate	30.1	29.1	28.7	31.1	29.9	32.0	29.8	30.8	30.3
Time to doctorate									
From baccalaureate	7.6	6.6	6.2	8.5	7.8	9.9	7.3	8.2	7.8
From graduate school start	6.7	6.0	5.7	7.4	7.2	8.8	6.3	7.0	6.7

D = suppressed to avoid disclosure of confidential information.

^a A bachelor's degree is counted as "in the same field as doctorate" if the fields of study of a doctorate recipient's bachelor's degree and doctorate degree are both in the same major field category of the NSF field of study taxonomy. See appendix A, table A-6, for a listing of the major fields and their constituent subfields.

NOTE: Due to rounding, the sum of percentages may not equal to 100.

SOURCE: NSF/NIH/USED/USDA/NEH/NASA, 2009 Survey of Earned Doctorates.